

# **NPLCC S-TEK Subcommittee Meeting**

## **May 8, 2011**

**1:30 – 1:45 Welcome, introductions, update on action items (Frank Shipley)**

**1:45 -2:55 Focus on FY12 priorities: Status report from tech. teams and NPLCC staff**

**2:55 – 4:00 Focus on Science Strategy**

## Action items from April 5<sup>th</sup> meeting/call.

Action	Who	When
Volunteer / nominate reviewers for TEK proposals	All	Nominations to Mary Mahaffy by <b>April 27<sup>th</sup></b>
Develop proposal review process	Frank S., Mary M., and Karen J.	By May 8 <sup>th</sup> meeting; STEK will discuss and finalize process on call
Develop recommendations for a data management platform; arrange for demonstration of recommended platform	Data management platform technical team (additional volunteers welcome)	First call April 16 <sup>th</sup> Develop recommendations for discussion on May 8 <sup>th</sup> STEK call
Convene GIS team and begin work	GIS technical team (additional volunteers welcome)	First call April 23 <sup>rd</sup> Update to STEK on May 8 <sup>th</sup> call
Provide input on potential science and information sharing workshops and symposiums the NPLCC should consider supporting in FY12	All	Suggestions to Mary Mahaffy by <b>May 1<sup>st</sup></b>
Review and provide comments on the decision support context: management decisions and outcomes of interest (Appendices C and D)	All	Comments and suggestions to Karen Jenni by <b>May 1<sup>st</sup></b>
Review and provide comments on proposed goals/objectives for the Science Strategy (pages 5-6 of this summary)	All	Comments and suggestions to Karen Jenni by <b>May 1<sup>st</sup></b>
Provide links, descriptions, and/or contacts for related science strategies affecting the NPLCC region	All	Information to Mary Mahaffy by <b>May 25<sup>th</sup></b>

# FY 12 Priorities Update

- RFP Update – Mary Mahaffy, NPLCC
- Terrestrial Habitat Project – Dan Siemann, NWF
- GIS Data Layers Update – Tom Miewald, USFWS
- Data Management Platform – Tom Miewald & Sean Finn, GNLCC
- Workshops and Symposiums – All

# RFP Proposal Review Schedule

- Proposals are due by COB 5/16
- Proposals posted for review by 2:00 pm on 5/17
- Proposal review 5/17 to 5/24
- NPLCC staff & Karen – collate evaluations & prepare summary (5/25)
- Reviewers WebEx on 5/29 or 5/30 – dev. Recommended list
- Steering Committee meeting likely June 1
- Notify applicants by June 4
- Approx. 2 weeks complete agreement packages

# NWF/NPLCC Focus Groups

- Workshop held in Juneau, Alaska on April 20
- 43 attendees
  - 18 from Tribes/First Nations (42%)
  - 15 from Federal agencies (35%)
  - 6 from Academia (14%)
  - 4 from NGOs or other groups (9%)
- Science needs for aquatic and terrestrial ecosystems
- Science-support needs across region

# NWF/NPLCC Focus Groups: Next Steps

- Web-based focus groups (230 invites sent so far)
  - May 17, 1-3 PM PST: Coastal Temperate Rainforest Ecosystems
  - May 18, 10 AM to Noon PST: Lowlands, Prairies, and Other Non-forested Ecosystems
  - May 22, 10 AM to Noon PST: Interior Mountain Ecosystems
- In-person workshop
  - June 11, Arcata or Redding CA
  - Title: Expert Workshop to Inform Climate Change Science Priorities in the NPLCC – Spotlight on Terrestrial Ecosystems
- Draft focus groups report mid-July, final mid-August
- Finalize marine and freshwater reports, produce terrestrial reports from September 2012 to May 2013

GIS Technical Team

# Team Members

- Tom Miewald – USFWS
- Eric Bergey – USFWS
- Joe Bernert – OSU/INR
- Kathryn Boyer – NRCS
- Ann Braaten – NPS
- Dominick Della Sala – Geos Institute
- Kelly Christiansen – USFS, PNW
- Peter Eldred – USFS, PNW
- Kathleen Moore – Canadian Wildlife Service
- Frank Shipley – USGS
- Mary Mahaffy – NPLCC



# Technical Team Goals:

1. Identify the status of “Foundational” and “Secondary” geospatial data sets to support conservation in the LCC region.
2. Compile and synthesize best available data and associated metadata. Make the metadata and data accessible to LCC partners.
3. Prioritization of data needs across the region.
4. Identify means for sharing and updating this analysis.

# • **Foundational Data Sets**

- Climate Change Information
  - Basic climate information
  - Predicted climate models (Regional models)
  - More information on specific ecological attributes related to climate change. For example: stream flows, temperature, etc.
- Digital Elevation Models (DEMs)
  - 10 meter/LiDAR based
- Hydrology
  - Stream Network/ Watershed
- Land Cover/Vegetation
- Satellite or Aerial Imagery
- Roads/Transportation
- Estuarine/Near-shore Data
- Geology/Geomorphology
- Ownership and Land Management

- **“Secondary” Data Sets: (data sets that are not typically core data sets in a GIS Clearinghouse, more specialized data to conservation)**
  - Species distribution / habitat models => which species?
  - Biodiversity Information: element occurrence data, critical habitat,
  - Watershed and watershed condition data
  - Climate vulnerability models
  - Conservation priority areas from other exercises (for example: TNC portfolios, Important Bird Areas
  - Existing and planned alternative energy systems (likely wind)
  - Monitoring data.
  - Landscape condition/Ecological footprint analysis/Human Footprint.

# Data Gap Assessment

- Monthly web-ex/conference calls will be set up for the GIS Technical Team.
- Include Decision Support Tools (NetMap, etc)
- Meetings with Ecotrust, TNC, others who have assessed the region.

# NPLCC Data Management Technical Team

# LCC Benchmark for Data Mgt and GIS

“The LCC has developed a shared data and information platform to accumulate and deliver foundational data, conduct data gap assessments, provide a repository and tracking mechanisms for modeling, research, or other science projects and has worked with neighboring LCCs to ensure data/information development and management follow established best practices and policies”

- Members:
  - Erin Stockenberg, USFWS I & M Data Manager
  - Jennie Hoffman, EcoAdapt
  - Tom Miewald, USFWS
  - Other potentials: BC Conservation Data Centre, CSC?

- Goal:
  - Identify Data Management Needs and Platform for NPLCC.
  - Work towards increased coordination and communication around data and uses.



# Data Mgt. Platform Selection

### Legend

- |   |
|---|
| Top candidates for selection as a LCC data mgt. platform    |
| Need more information                                       |
| Does not meet one or more core LCC needs                    |
| An excellent example of a data site for manager/planner use |

[illegible]

# Attributes of a Data Mgt. System

- Data repository
- Data Sharing
  - Policies and Processes
  - Security
- Edit and Update
- Data Analysis
- Data Discovery, internal and external.
- Adoption
- Support Needed
- Cost
- Outreach and Networking
- Data Type (spatial, non-spatial, qualitative, all)
- Software required

# Results

- Top Selections:
  - LC-MAP
  - DataBasin
- Need more information, or still in development:
  - NKN
  - Western Landscapes Explorer
- Enhanced systems (capabilities we'd like to see)
  - PRBO, CalAdapt

- Other systems

- BISON

- NPS IRMA/IRIS

- VegBank

- NOAA Digital Coast

- Avian Knowledge Network

- National Phenology Network

- eBird

- Etc, etc..

# LC-MAP

- LC-MAP was chosen because:
  - Adoption from neighboring LCCs
  - Analysis capabilities
  - Integration with ScienceBase
  - Opportunities to customize
  - Will meet short-term needs most effectively
- Will continue to work towards enhanced capabilities.

# Next Steps

- Implementation of LC-MAP
  - USGS contract
  - Other work needed
- Other aspects of Data Management
  - Data standards
- User needs workshops/focus groups
- Get people to start using system, feedback.

# Data Mgt: One Year From Now?

- NPLCC Funded data is online and accessible.
- Partners are actively using LCC data and becoming aware that the LCC provides resources.
- Better understanding of needs in the region.
- Data Manager?
- Closer integration with CSCs, others.
- Towards improved capacity for data users and resource managers.

# Workshops and Symposiums

## Proposed for FY12

- Cross-boundary Data Integration Workshop to be held in Vancouver this year (hosted by ACRC last year) (estimated cost \$30k)(FY11)
- PNW Climate Science Conference (Boise, ID) (\$5k)(FY11)
- Data Management Focus Group (Jennie Hoffman has details)
- Transboundary Forum (WA & BC)– Habitat connectivity to be co-sponsored by the Great Northern LCC (\$10k)
- WildLinks (at North Cascades Inst., North Cascades NP) (\$4k)(FY11)
- Others?